

10/23/2015
Mr. Terry Taylor
Anderson Mulholland & Associates, Inc.
2700 Westchester Avenue
Suite 417
Purchase NY 10577

Project Name: BMS VI

Project #:

Workorder #: 1510351C

Dear Mr. Terry Taylor

The following report includes the data for the above referenced project for sample(s) received on 10/20/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

**Brian Whittaker** 

Project Manager

Brian Whattaker



#### **WORK ORDER #: 1510351C**

#### Work Order Summary

CLIENT: Mr. Terry Taylor BILL TO: Accounts Payable

Anderson Mulholland & Associates, Anderson Mulholland & Associates, Inc.

P.O. #

Inc. 2700 Westchester Avenue

2700 Westchester Avenue Suite 417

Suite 417 Purchase, NY 10577

PHONE: Purchase NY 10577 (914) 251-0400

FAX: PROJECT # BMS VI

**DATE RECEIVED:** 10/20/2015 **CONTACT:** Brian Whittaker **DATE COMPLETED:** 10/23/2015

		RECEIPT	FINAL
NAME	<u>TEST</u>	VAC./PRES.	<b>PRESSURE</b>
B30IA-1 101715	Modified ASTM D-1946	5.7 "Hg	5 psi
B30IA-2 101715	Modified ASTM D-1946	6.1 "Hg	4.8 psi
B30IA-3 101715	Modified ASTM D-1946	7.8 "Hg	4.1 psi
B30IA-4 101715	Modified ASTM D-1946	4.7 "Hg	5.1 psi
B30IA-4D 101715	Modified ASTM D-1946	3.7 "Hg	4.8 psi
B30IA-5 101715	Modified ASTM D-1946	5.9 "Hg	5.2 psi
B42IA-1 101715	Modified ASTM D-1946	6.1 "Hg	4.9 psi
B42IA-2 101715	Modified ASTM D-1946	4.5 "Hg	4.9 psi
B42IA-3 101715	Modified ASTM D-1946	2.6 "Hg	4.9 psi
B3042AA	Modified ASTM D-1946	8.8 "Hg	4.9 psi
B8IA-2 101715	Modified ASTM D-1946	4.5 "Hg	4.9 psi
B8IA-2D 101715	Modified ASTM D-1946	7.1 "Hg	5.1 psi
B8AA-1 101715	Modified ASTM D-1946	4.5 "Hg	5 psi
Lab Blank	Modified ASTM D-1946	NA	NA
LCS	Modified ASTM D-1946	NA	NA
LCSD	Modified ASTM D-1946	NA	NA
	B30IA-1 101715 B30IA-2 101715 B30IA-3 101715 B30IA-4 101715 B30IA-4D 101715 B30IA-5 101715 B42IA-1 101715 B42IA-2 101715 B42IA-3 101715 B42IA-3 101715 B3042AA B8IA-2 101715 B8IA-2D 101715 B8AA-1 101715 Lab Blank LCS	B30IA-1 101715         Modified ASTM D-1946           B30IA-2 101715         Modified ASTM D-1946           B30IA-3 101715         Modified ASTM D-1946           B30IA-4 101715         Modified ASTM D-1946           B30IA-5 101715         Modified ASTM D-1946           B42IA-1 101715         Modified ASTM D-1946           B42IA-2 101715         Modified ASTM D-1946           B42IA-3 101715         Modified ASTM D-1946           B3042AA         Modified ASTM D-1946           B8IA-2 101715         Modified ASTM D-1946           B8IA-2D 101715         Modified ASTM D-1946           B8AA-1 101715         Modified ASTM D-1946           Lab Blank         Modified ASTM D-1946           LCS         Modified ASTM D-1946	NAME         TEST         VAC./PRES.           B30IA-1 101715         Modified ASTM D-1946         5.7 "Hg           B30IA-2 101715         Modified ASTM D-1946         6.1 "Hg           B30IA-3 101715         Modified ASTM D-1946         7.8 "Hg           B30IA-4 101715         Modified ASTM D-1946         4.7 "Hg           B30IA-4D 101715         Modified ASTM D-1946         3.7 "Hg           B30IA-5 101715         Modified ASTM D-1946         5.9 "Hg           B42IA-1 101715         Modified ASTM D-1946         6.1 "Hg           B42IA-2 101715         Modified ASTM D-1946         4.5 "Hg           B3042AA         Modified ASTM D-1946         8.8 "Hg           B8IA-2 101715         Modified ASTM D-1946         4.5 "Hg           B8IA-2D 101715         Modified ASTM D-1946         7.1 "Hg           B8AA-1 101715         Modified ASTM D-1946         7.1 "Hg           B8AA-1 101715         Modified ASTM D-1946         NA           Lab Blank         Modified ASTM D-1946         NA           LCS         Modified ASTM D-1946         NA

	The	ude Tlayer		
CERTIFIED BY:			DATE: 10/23/15	

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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#### LABORATORY NARRATIVE Modified ASTM D-1946 Anderson Mulholland & Associates, Inc. Workorder# 1510351C

Thirteen 6 Liter Summa Canister (100% Certified) samples were received on October 20, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed.  Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.



#### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



## Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: B30IA-1 101715

Lab ID#: 1510351C-01A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	0.00023
Client Sample ID: B30IA-2 101715		
Lab ID#: 1510351C-02A		
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00017	0.00032
Client Sample ID: B30IA-3 101715		
Lab ID#: 1510351C-03A		
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00017	0.00029
Client Sample ID: B30IA-4 101715		
Lab ID#: 1510351C-04A		
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00016	0.00028
Client Sample ID: B30IA-4D 101715		
Lab ID#: 1510351C-05A		
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00015	0.00028
Client Sample ID: B30IA-5 101715		
Lab ID#: 1510351C-06A		
	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00017	0.00027



## Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

**Client Sample ID: B42IA-1 101715** 

	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00017	0.00020
Client Sample ID: B42IA-2 101715		
Lab ID#: 1510351C-08A		
Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00020
Client Sample ID: B42IA-3 101715		
Lab ID#: 1510351C-09A		
Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00015	0.00020
Client Sample ID: B3042AA		
Lab ID#: 1510351C-10A		
Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00019	0.00020
Client Sample ID: B8IA-2 101715		
Lab ID#: 1510351C-11A		
Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00021

Client Sample ID: B8IA-2D 101715 Lab ID#: 1510351C-12A

 Rpt. Limit
 Amount

 Compound
 (%)
 (%)

 Methane
 0.00018
 0.00022



# Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: B8AA-1 101715

Lab ID#: 1510351C-13A

	Rpt. Limit	Amount
Compound	(%)	(%)
Methane	0.00016	0.00020



## Client Sample ID: B30IA-1 101715 Lab ID#: 1510351C-01A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102205 1.66		ction: 10/18/15 11:00:00 A vsis: 10/22/15 02:18 PM
Compound		Rpt. Limit (%)	Amount (%)
Methane		0.00017	0.00023



## Client Sample ID: B30IA-2 101715 Lab ID#: 1510351C-02A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9102206		etion: 10/18/15 11:26:00 A
Dil. Factor:	1.67	Date of Analysis: 10/22/15 03:16  Rpt. Limit Am	
Compound		(%)	(%)
Methane		0.00017	0.00032



## Client Sample ID: B30IA-3 101715 Lab ID#: 1510351C-03A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102207 1.72		ction: 10/18/15 11:59:00 A sis: 10/22/15 03:37 PM
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00017	0.00029



## Client Sample ID: B30IA-4 101715 Lab ID#: 1510351C-04A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102208 1.60		ction: 10/18/15 11:38:00 A /sis: 10/22/15 04:16 PM
Compound		Rpt. Limit (%)	Amount (%)
Methane		0.00016	0.00028



## Client Sample ID: B30IA-4D 101715 Lab ID#: 1510351C-05A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102209 1.51		ction: 10/18/15 11:38:00 A sis: 10/22/15 04:45 PM
Compound		Rpt. Limit (%)	Amount (%)
Methane		0.00015	0.00028



## Client Sample ID: B30IA-5 101715 Lab ID#: 1510351C-06A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9102210	Date of Collect	etion: 10/18/15 11:32:00 A
Dil. Factor:	1.69	Date of Analysis: 10/22/15 05:08 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00017	0.00027



## Client Sample ID: B42IA-1 101715 Lab ID#: 1510351C-07A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102211 1.68		etion: 10/18/15 12:38:00 P sis: 10/22/15 06:15 PM
Oama and		Rpt. Limit	Amount
Compound  Methane		<b>(%)</b> 0.00017	<b>(%)</b> 0.00020



## Client Sample ID: B42IA-2 101715 Lab ID#: 1510351C-08A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102212 1.57		ection: 10/18/15 7:54:00 AM ysis: 10/22/15 06:39 PM
Compound		Rpt. Limit (%)	Amount (%)
Methane		0.00016	0.00020



### Client Sample ID: B42IA-3 101715 Lab ID#: 1510351C-09A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102213 1.46		ction: 10/18/15 7:52:00 AM sis: 10/22/15 07:19 PM
Commonad		Rpt. Limit (%)	Amount
Compound		· · ·	(%)
Methane		0.00015	0.00020



### Client Sample ID: B3042AA Lab ID#: 1510351C-10A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102214 1.88		ction: 10/18/15 1:45:00 PM sis: 10/22/15 07:49 PM
O		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00019	0.00020



## Client Sample ID: B8IA-2 101715 Lab ID#: 1510351C-11A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102215 1.57		ction: 10/18/15 11:45:00 A sis: 10/22/15 09:04 PM
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00016	0.00021



## Client Sample ID: B8IA-2D 101715 Lab ID#: 1510351C-12A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102216 1.77		ction: 10/18/15 11:45:00 A sis: 10/22/15 09:25 PM
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00018	0.00022



## Client Sample ID: B8AA-1 101715 Lab ID#: 1510351C-13A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9102217 1.58		ction: 10/18/15 11:45:00 A sis: 10/22/15 09:51 PM
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00016	0.00020



## Client Sample ID: Lab Blank Lab ID#: 1510351C-14A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9102204	Date of Colle	ction: NA
Dil. Factor:	1.00	Date of Analysis: 10/22/15 01:50 P	
		Rpt. Limit	Amount
Compound		(%)	(%)
Methane		0.00010	Not Detected

Container Type: NA - Not Applicable



## Client Sample ID: LCS Lab ID#: 1510351C-15A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9102202 Date of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 10/22/15 12:02 PM

		Method	
Compound	%Recovery	Limits	
Methane	94	85-115	

**Container Type: NA - Not Applicable** 



## Client Sample ID: LCSD Lab ID#: 1510351C-15AA

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9102218 Date of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 10/22/15 10:27 PM

		Method	
Compound	%Recovery	Limits	
Methane	94	85-115	

**Container Type: NA - Not Applicable**